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## *Breast and Cervical Cancer Screening*

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### **NO MAMMOGRAM**

*Definition: Women respondents, ages 40 and older, who have not had a mammogram in the past two years.*

### **Prevalence of No Mammogram**

- South Dakota 25.8%
- Nationwide median 23.5%

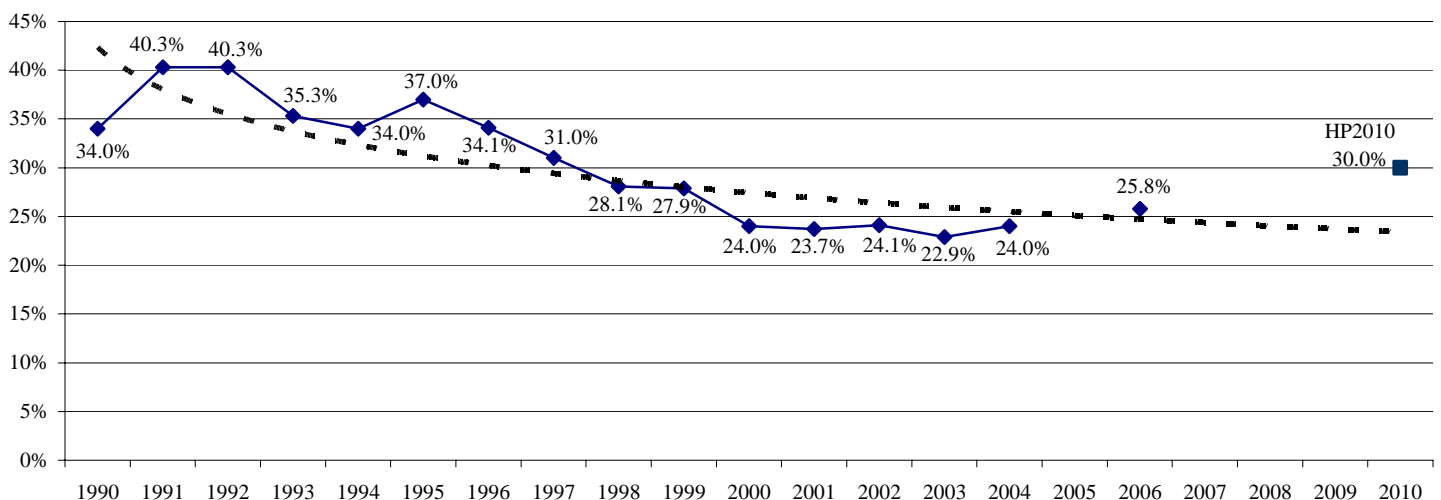
### **Healthy People 2010 Objective**

*Decrease the proportion of women aged 40 years and older who have not received a mammogram within the preceding 2 years to 30 percent.*

### **Trend Analysis**

Overall, the percent of women respondents who have not had a mammogram in the past two years has been decreasing since the question was first asked in 1990. Since 1998, South Dakota has met the *Healthy People 2010 Objective* of 30 percent. The percent of women who have not had a mammogram in the past two years increased from 24 percent in 2004 to 25.8 percent in 2006.

**Figure 24**  
**Percent of Women Respondents, Ages 40 and Older, Who Have Not Had a Mammogram in the Past 2 Years, 1990-2004 and 2006**



Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 1990-2004, and 2006

### **Demographics**

**Age** Lack of mammograms generally decreases as age increases until the 75+ age group is reached. A significant increase in the lack of mammograms is shown at this age group.

<b>Race</b>	There are no significant racial differences observed from the available data.
<b>Region</b>	The American Indian counties region exhibits a very high prevalence of those without a mammogram in the past two years, while the southeast and northeast regions show a very low prevalence.
<b>Household Income</b>	Mammogram insufficiency is much higher for those in lower income groups.
<b>Education</b>	Lack of mammogram screening decreases as education increases.
<b>Employment Status</b>	There are no significant differences observed from the available data with regard to different types of employment.
<b>Marital Status</b>	Those who are divorced, separated, or have never been married exhibit a very high prevalence of mammogram insufficiency, while those who are married show a very low prevalence.

**Table 31**  
**Women Respondents, Ages 40 and Older, Who Have Not Had a Mammogram in the Past 2 Years, 2006**

	Total			Male			Female		
	# Resp.	%	95% CI	# Resp.	%	95% CI	# Resp.	%	95% CI
<b>Total</b>	<b>3,045</b>	<b>25.8</b>	<b>(24.0-27.7)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,045</b>	<b>25.8</b>	<b>(24.0-27.7)</b>
<b>Age</b>									
18-24	-	-	-	-	-	-	-	-	-
25-34	-	-	-	-	-	-	-	-	-
35-44	325	40.8	(34.6-47.3)	-	-	-	325	40.8	(34.6-47.3)
45-54	810	26.3	(22.9-30.0)	-	-	-	810	26.3	(22.9-30.0)
55-64	658	19.0	(15.9-22.6)	-	-	-	658	19.0	(15.9-22.6)
65-74	570	16.2	(13.0-20.0)	-	-	-	570	16.2	(13.0-20.0)
75+	682	28.5	(24.7-32.7)	-	-	-	682	28.5	(24.7-32.7)
<b>Race</b>									
White	2,783	25.4	(23.5-27.4)	-	-	-	2,783	25.4	(23.5-27.4)
American Indian	201	32.7	(25.0-41.4)	-	-	-	201	32.7	(25.0-41.4)
<b>Region</b>									
Southeast	680	24.7	(21.3-28.5)	-	-	-	680	24.7	(21.3-28.5)
Northeast	767	24.3	(21.2-27.8)	-	-	-	767	24.3	(21.2-27.8)
Central	671	25.8	(22.3-29.6)	-	-	-	671	25.8	(22.3-29.6)
West	649	27.6	(24.0-31.5)	-	-	-	649	27.6	(24.0-31.5)
American Indian Counties	278	35.5	(29.0-42.6)	-	-	-	278	35.5	(29.0-42.6)
<b>Household Income</b>									
Less than \$10,000	162	43.9	(35.5-52.6)	-	-	-	162	43.9	(35.5-52.6)
\$10,000-\$14,999	228	31.1	(24.5-38.5)	-	-	-	228	31.1	(24.5-38.5)
\$15,000-\$19,999	285	33.1	(26.6-40.2)	-	-	-	285	33.1	(26.6-40.2)
\$20,000-\$24,999	273	29.7	(23.5-36.8)	-	-	-	273	29.7	(23.5-36.8)
\$25,000-\$34,999	385	26.4	(21.2-32.3)	-	-	-	385	26.4	(21.2-32.3)
\$35,000-\$49,999	472	28.1	(23.3-33.5)	-	-	-	472	28.1	(23.3-33.5)
\$50,000-\$74,999	358	19.1	(15.0-24.0)	-	-	-	358	19.1	(15.0-24.0)
\$75,000+	327	14.4	(10.7-19.0)	-	-	-	327	14.4	(10.7-19.0)
<b>Education</b>									
8th Grade or Less	141	36.6	(27.8-46.4)	-	-	-	141	36.6	(27.8-46.4)
Some High School	160	31.2	(22.8-41.1)	-	-	-	160	31.2	(22.8-41.1)
High School or G.E.D.	1,029	27.7	(24.6-31.1)	-	-	-	1,029	27.7	(24.6-31.1)
Some Post-High School	903	25.6	(22.3-29.1)	-	-	-	903	25.6	(22.3-29.1)
College Graduate	809	21.4	(18.1-25.0)	-	-	-	809	21.4	(18.1-25.0)

**Table 31 (continued)**  
**Women Respondents, Ages 40 and Older, Who Have Not Had a Mammogram in the Past 2 Years, 2006**

	Total			Male			Female		
	# Resp.	%	95% CI	# Resp.	%	95% CI	# Resp.	%	95% CI
<b>Employment Status</b>									
Employed for Wages	1,355	25.2	(22.5-28.0)	-	-	-	1,355	25.2	(22.5-28.0)
Self-employed	231	29.5	(22.8-37.1)	-	-	-	231	29.5	(22.8-37.1)
Unemployed	*	*	*	-	-	-	*	*	*
Homemaker	281	26.2	(20.6-32.7)	-	-	-	281	26.2	(20.6-32.7)
Retired	955	22.8	(19.8-26.0)	-	-	-	955	22.8	(19.8-26.0)
Unable to Work	151	34.9	(25.6-45.6)	-	-	-	151	34.9	(25.6-45.6)
<b>Marital Status</b>									
Married/Unmarried Couple	1,628	23.6	(21.3-26.0)	-	-	-	1,628	23.6	(21.3-26.0)
Divorced/Separated	425	33.1	(27.6-39.1)	-	-	-	425	33.1	(27.6-39.1)
Widowed	836	27.1	(23.7-30.7)	-	-	-	836	27.1	(23.7-30.7)
Never Married	151	35.5	(27.5-44.5)	-	-	-	151	35.5	(27.5-44.5)

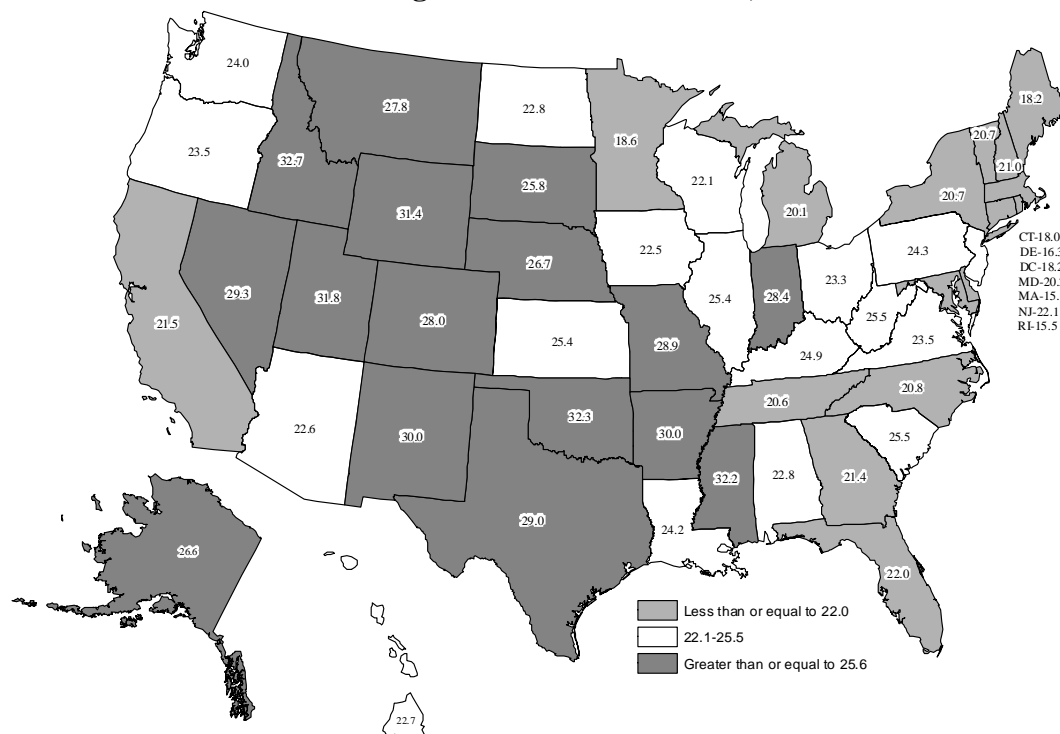
Note: \*Results based on sample sizes less than 100 have been suppressed.

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2006

## National Statistics

The national median for women respondents who have not had a mammogram in the past two years was 23.5 percent. South Dakota had 25.8 percent of women respondents who have not had a mammogram in the past two years. Massachusetts had the lowest percent of women respondents who have not had a mammogram in the past two years with 15.2 percent, while Idaho had the highest percent of women respondents who have not had a mammogram in the past two years with 32.7 percent.

**Figure 25**  
**Nationally, Women Respondents, Ages 40 and Older, Who Have Not Had a Mammogram in the Past 2 Years, 2006**



Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2006

## Further Analysis

Following are data illustrating the percent of those women who have not had a mammogram in the past two years for various health behaviors and conditions. For example, 57.6 percent of women respondents who stated they have no health insurance have not had a mammogram in the past two years, while 24.3 percent of women respondents who have health insurance have not had a mammogram in the past two years.

<b>Table 32</b> <b>No Mammogram, Ages 40 and Older, in Past 2 Years for Selected Health Behaviors and Conditions, 2006</b>			
<b>Health Behavior or Condition</b>	<b># Respondents</b>	<b>% No Mammogram</b>	<b>95% CI</b>
Obese (BMI = 30.0+)	729	25.3	21.5-29.5
Overweight (BMI = 25.0-29.9)	962	24.9	21.8-28.3
Recommended Weight (BMI = 18.5-24.9)	1,062	26.2	23.2-29.5
No Leisure Time Physical Activity	810	32.0	28.3-36.0
Leisure Time Physical Activity	2,233	23.6	21.6-25.8
Not Heard of "Healthy South Dakota" Program	1,745	27.5	25.1-30.1
Heard of "Healthy South Dakota" Program	1,209	23.0	20.2-25.9
Current Smoker	507	37.2	32.3-42.5
Former Smoker	793	23.0	19.7-26.7
Never Smoked	1,744	23.9	21.5-26.3
Smokeless Tobacco Use	*	*	*
No Smokeless Tobacco Use	3,006	25.7	23.8-27.6
Diabetes	331	19.9	15.3-25.5
No Diabetes	2,714	26.4	24.4-28.4
Current Asthma	225	26.9	20.5-34.5
Former Asthma	*	*	*
Never Had Asthma	2,731	25.4	23.5-27.4
No Clinical Breast Exam within Past Two Years	704	71.8	67.8-75.4
Clinical Breast Exam within Past Two Years	2,313	13.1	11.5-14.9
No Pap Smear within the Past Three Years	439	71.9	66.8-76.5
Pap Smear within the Past Three Years	1,597	19.4	17.2-21.9
No PSA Test within the Past Two Years (40+)	-	-	-
PSA Test within the Past Two Years (40+)	-	-	-
No Digital Rectal Exam within the Past Two Years (40+)	-	-	-
Digital Rectal Exam within the Past Two Years (40+)	-	-	-
Prostate Cancer (40+)	-	-	-
No Prostate Cancer (40+)	-	-	-
No Blood Stool Test within the Past Two Years (50+)	1,715	26.3	23.9-28.8
Blood Stool Test within the Past Two Years (50+)	531	6.5	4.5-9.2
Never Had a Sigmoidoscopy or Colonoscopy (50+)	1,001	33.3	30.0-36.8
Ever Had a Sigmoidoscopy or Colonoscopy (50+)	1,280	13.0	11.0-15.3
Diagnosed with Cancer in the Past 12 Months	*	*	*
Not Diagnosed with Cancer in the Past 12 Months	2,930	25.9	24.0-27.9
Drank Alcohol in Past 30 Days	1,289	22.4	19.8-25.2
No Alcohol in Past 30 Days	1,750	28.7	26.2-31.4
Binge Drinker	188	33.4	26.2-41.6
Not a Binge Drinker	2,801	25.2	23.3-27.2
Heavy Drinker	*	*	*
Not a Heavy Drinker	2,930	25.5	23.6-27.5
No Health Insurance (18-64)	147	57.6	48.2-66.6
Health Insurance (18-64)	1,622	24.3	21.9-26.9

**Table 32 (continued)**  
**No Mammogram, Ages 40 and Older, in Past 2 Years for Selected Health Behaviors and Conditions, 2006**

<b>Health Behavior or Condition</b>	<b># Respondents</b>	<b>% No Mammogram</b>	<b>95% CI</b>
Employer Based Health Insurance Coverage (18-64)	1,139	23.0	20.2-26.0
Private Health Insurance Plan (18-64)	221	20.7	15.2-27.6
Medicare (18-64)	*	*	*
Medicaid or Medical Assistance (18-64)	*	*	*
The Military, CHAMPUS, TriCare, or the VA (18-64)	*	*	*
The Indian Health Service (18-64)	*	*	*
No Flu Shot (65+)	319	37.1	31.2-43.5
Flu Shot (65+)	931	18.5	15.7-21.6
No Pneumonia Shot (65+)	421	29.7	24.9-35.1
Pneumonia Shot (65+)	807	18.9	15.9-22.3
Haven't Been to the Dentist in the Past Year	921	42.8	38.9-46.7
Been to the Dentist in the Past Year	2,112	19.3	17.4-21.4
Not Taking any Precautions Against West Nile Virus	1,197	30.4	27.3-33.6
Taking Precautions Against West Nile Virus	1,804	22.6	20.4-25.0
Sometimes/Seldom/Never Wear Seat Belt	327	42.9	36.8-49.3
Always/Almost Always Wear Seat Belt	2,713	23.9	22.0-25.9
Previously Had a Heart Attack	199	21.7	15.6-29.3
Never Had a Heart Attack	2,833	25.9	24.1-27.9
Have Angina or Coronary Heart Disease	197	24.1	17.6-32.0
Do Not have Angina or Coronary Heart Disease	2,820	25.8	23.9-27.8
Previously Had a Stroke	150	31.8	23.2-41.9
Never Had a Stroke	2,891	25.5	23.6-27.4
Fair or Poor Health Status	543	29.7	25.3-34.5
Excellent, Very Good, or Good Health Status	2,487	25.0	23.1-27.2
Physical Health Not Good for 30 Days of the Past 30	239	26.5	20.3-33.8
Physical Health Not Good for 0-29 Days of the Past 30	2,736	25.6	23.7-27.6
Mental Health Not Good for 20-30 Days of the Past 30	187	37.9	30.1-46.3
Mental Health Not Good for 0-19 Days of the Past 30	2,800	25.0	23.2-27.0
Usual Activities Unattainable for 10-30 Days of the Past 30	235	32.1	25.1-40.0
Usual Activities Unattainable for 0-9 Days of the Past 30	2,776	25.2	23.4-27.2
Dissatisfied / Very Dissatisfied with Life	108	36.9	27.3-47.8
Satisfied / Very Satisfied with Life	2,902	25.3	23.5-27.3
Physical, Mental, or Emotional Disability	831	28.8	25.2-32.7
No Physical, Mental, or Emotional Disability	2,206	24.6	22.5-26.8
Disability with Special Equipment Needed	311	28.5	22.9-34.9
No Disability with Special Equipment Needed	2,731	25.5	23.6-27.5
Injured in a Fall (45+)	158	32.8	24.8-42.0
Not Injured in a Fall (45+)	2,547	22.5	20.7-24.5
Never Been Tested for HIV (18-64)	1,516	27.3	24.7-30.1
Been Tested for HIV (18-64)	243	27.1	21.1-34.0
Military Veteran	*	*	*
Not a Military Veteran	2,987	25.8	24.0-27.8

Note: \*Results based on sample sizes less than 100 have been suppressed.

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2006

## **NO CLINICAL BREAST EXAM**

*Definition: Women respondents who have not had a clinical breast exam in the past two years.*

### **Prevalence of No Clinical Breast Exam**

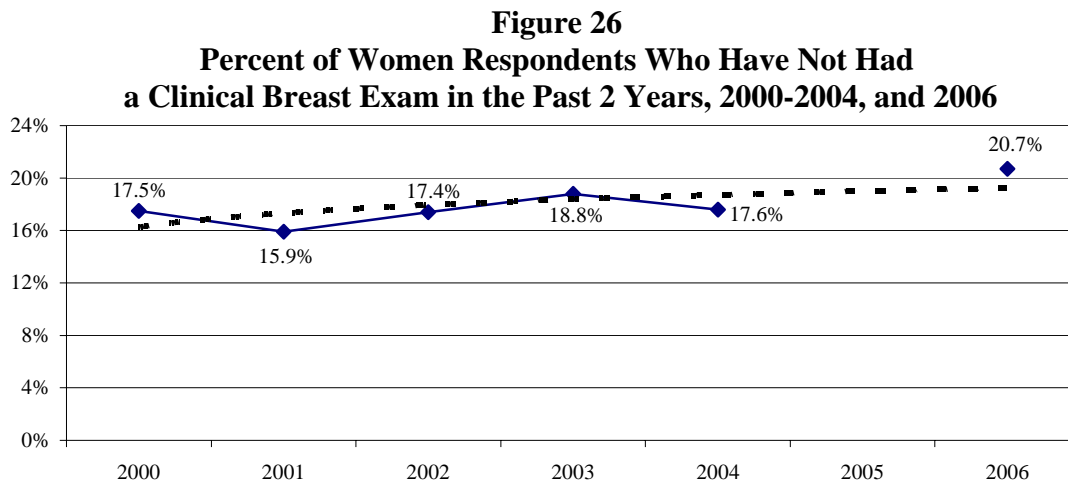
- South Dakota 20.7%
- There is no nationwide median for no clinical breast exam in the past two years

### **Healthy People 2010 Objective**

*There was no stated Healthy People 2010 Objective for no clinical breast exam in the past two years.*

### **Trend Analysis**

Since this question was first asked in 2000, the percent of women respondents who have not had a clinical breast exam in the past two years ranged from its low in 2001 with 15.9 percent to its high in 2006 with 20.7 percent.



Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2000-2004, and 2006

### **Demographics**

<b>Age</b>	Failure to get a breast exam fluctuates as age increases. However, there is a significant decrease in the prevalence of lack of breast exams as the 25-34 age group is reached, and a significant increase as the 75+ age group is reached.
<b>Race</b>	American Indians exhibit a significantly higher prevalence of breast exam insufficiency than whites.
<b>Region</b>	The American Indian counties region exhibits a very high prevalence of those without a breast exam in the past two years, while the southeast region shows a very low prevalence.
<b>Household Income</b>	Lack of breast exams seems to generally decrease as household income increases. This includes a significant decrease as the \$75,000 or more income group is reached.

<b>Education</b>	Breast exam insufficiency seems to generally decrease as education increases. This includes a significant decrease as the high school and college graduate education levels are attained.
<b>Employment Status</b>	Those who are retired or unable to work demonstrate a very high prevalence of breast exam insufficiency, while those who are employed for wages show a very low prevalence.
<b>Marital Status</b>	Those who are married exhibit a significantly lower prevalence of breast exam insufficiency than all other types of marital status.

<b>Table 33</b>									
<b>Women Respondents Who Have Not Had a Clinical Breast Exam in the Past 2 Years, 2006</b>									
	<b>Total</b>			<b>Male</b>			<b>Female</b>		
	<b># Resp.</b>	<b>%</b>	<b>95% CI</b>	<b># Resp.</b>	<b>%</b>	<b>95% CI</b>	<b># Resp.</b>	<b>%</b>	<b>95% CI</b>
<b>Total</b>	<b>3,953</b>	<b>20.7</b>	<b>(19.0-22.6)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>3,953</b>	<b>20.7</b>	<b>(19.0-22.6)</b>
<b>Age</b>									
18-24	148	32.6	(24.4-42.1)	-	-	-	148	32.6	(24.4-42.1)
25-34	445	10.0	(7.3-13.5)	-	-	-	445	10.0	(7.3-13.5)
35-44	610	18.1	(14.9-21.7)	-	-	-	610	18.1	(14.9-21.7)
45-54	811	17.6	(14.8-20.9)	-	-	-	811	17.6	(14.8-20.9)
55-64	658	15.6	(12.9-18.9)	-	-	-	658	15.6	(12.9-18.9)
65-74	568	19.8	(16.3-23.8)	-	-	-	568	19.8	(16.3-23.8)
75+	670	36.0	(31.9-40.3)	-	-	-	670	36.0	(31.9-40.3)
<b>Race</b>									
White	3,515	19.9	(18.1-21.8)	-	-	-	3,515	19.9	(18.1-21.8)
American Indian	321	31.5	(24.9-38.9)	-	-	-	321	31.5	(24.9-38.9)
<b>Region</b>									
Southeast	889	18.4	(15.3-22.0)	-	-	-	889	18.4	(15.3-22.0)
Northeast	980	21.3	(18.0-25.0)	-	-	-	980	21.3	(18.0-25.0)
Central	799	22.2	(18.9-25.9)	-	-	-	799	22.2	(18.9-25.9)
West	896	21.4	(18.1-25.2)	-	-	-	896	21.4	(18.1-25.2)
American Indian Counties	389	30.4	(24.4-37.2)	-	-	-	389	30.4	(24.4-37.2)
<b>Household Income</b>									
Less than \$10,000	212	39.0	(29.3-49.7)	-	-	-	212	39.0	(29.3-49.7)
\$10,000-\$14,999	276	33.1	(25.2-42.1)	-	-	-	276	33.1	(25.2-42.1)
\$15,000-\$19,999	335	35.7	(27.8-44.5)	-	-	-	335	35.7	(27.8-44.5)
\$20,000-\$24,999	350	26.7	(21.2-33.0)	-	-	-	350	26.7	(21.2-33.0)
\$25,000-\$34,999	506	18.9	(14.8-24.0)	-	-	-	506	18.9	(14.8-24.0)
\$35,000-\$49,999	635	17.7	(14.4-21.7)	-	-	-	635	17.7	(14.4-21.7)
\$50,000-\$74,999	542	14.7	(10.4-20.3)	-	-	-	542	14.7	(10.4-20.3)
\$75,000+	452	5.8	(4.0-8.3)	-	-	-	452	5.8	(4.0-8.3)
<b>Education</b>									
8th Grade or Less	150	37.1	(27.7-47.6)	-	-	-	150	37.1	(27.7-47.6)
Some High School	203	45.5	(33.9-57.6)	-	-	-	203	45.5	(33.9-57.6)
High School or G.E.D.	1,240	25.3	(22.0-28.9)	-	-	-	1,240	25.3	(22.0-28.9)
Some Post-High School	1,153	20.1	(17.2-23.4)	-	-	-	1,153	20.1	(17.2-23.4)
College Graduate	1,203	11.6	(9.7-13.9)	-	-	-	1,203	11.6	(9.7-13.9)
<b>Employment Status</b>									
Employed for Wages	1,976	16.2	(14.0-18.6)	-	-	-	1,976	16.2	(14.0-18.6)
Self-employed	308	21.1	(16.0-27.3)	-	-	-	308	21.1	(16.0-27.3)
Unemployed	*	*	*	-	-	-	*	*	*
Homemaker	385	20.5	(16.2-25.8)	-	-	-	385	20.5	(16.2-25.8)
Retired	955	28.0	(24.9-31.5)	-	-	-	955	28.0	(24.9-31.5)
Unable to Work	169	30.7	(22.6-40.2)	-	-	-	169	30.7	(22.6-40.2)
<b>Marital Status</b>									
Married/Unmarried Couple	2,219	15.1	(13.5-16.9)	-	-	-	2,219	15.1	(13.5-16.9)
Divorced/Separated	521	25.9	(21.4-30.9)	-	-	-	521	25.9	(21.4-30.9)
Widowed	845	32.4	(28.9-36.1)	-	-	-	845	32.4	(28.9-36.1)
Never Married	355	34.1	(26.4-42.8)	-	-	-	355	34.1	(26.4-42.8)

Note: \*Results based on sample sizes less than 100 have been suppressed.

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2006

## Further Analysis

Following are data illustrating the percent of those women who have not had a clinical breast exam in the past two years for various health behaviors and conditions. For example, 23.1 percent of women respondents who stated they have not heard of “Healthy South Dakota” program have not had a clinical breast exam in the past two years, while 16.8 percent of women respondents who have heard of “Healthy South Dakota” program have not had a clinical breast exam in the past two years.

<b>Health Behavior or Condition</b>	<b># Respondents</b>	<b>% No Clinical Breast Exam</b>	<b>95% CI</b>
Obese (BMI = 30.0+)	935	20.5	17.2-24.2
Overweight (BMI = 25.0-29.9)	1,195	23.4	19.9-27.3
Recommended Weight (BMI = 18.5-24.9)	1,451	17.9	15.4-20.6
No Leisure Time Physical Activity	979	28.6	25.1-32.3
Leisure Time Physical Activity	2,972	18.5	16.5-20.6
Not Heard of "Healthy South Dakota" Program	2,274	23.1	20.7-25.7
Heard of "Healthy South Dakota" Program	1,554	16.8	14.5-19.4
Current Smoker	730	28.2	24.0-32.8
Former Smoker	939	17.0	14.2-20.2
Never Smoked	2,279	19.7	17.4-22.3
Smokeless Tobacco Use	*	*	*
No Smokeless Tobacco Use	3,878	20.6	18.9-22.5
Diabetes	346	19.2	14.9-24.3
No Diabetes	3,607	20.8	19.0-22.8
Current Asthma	314	15.8	11.5-21.4
Former Asthma	112	26.4	15.4-41.4
Never Had Asthma	3,504	21.1	19.2-23.0
No Mammogram within Past Two Years (40+)	766	59.8	55.5-63.9
Mammogram within Past Two Years (40+)	2,251	8.1	7.0-9.4
No Pap Smear within the Past Three Years	496	84.0	79.9-87.4
Pap Smear within the Past Three Years	2,380	9.1	7.6-10.8
No PSA Test within the Past Two Years (40+)	-	-	-
PSA Test within the Past Two Years (40+)	-	-	-
No Digital Rectal Exam within the Past Two Years (40+)	-	-	-
Digital Rectal Exam within the Past Two Years (40+)	-	-	-
Prostate Cancer (40+)	-	-	-
No Prostate Cancer (40+)	-	-	-
No Blood Stool Test within the Past Two Years (50+)	1,705	27.2	24.8-29.6
Blood Stool Test within the Past Two Years (50+)	529	7.0	4.9-9.7
Never Had a Sigmoidoscopy or Colonoscopy (50+)	996	31.3	28.0-34.7
Ever Had a Sigmoidoscopy or Colonoscopy (50+)	1,272	15.9	13.7-18.2
Diagnosed with Cancer in the Past 12 Months	*	*	*
Not Diagnosed with Cancer in the Past 12 Months	3,798	20.9	19.1-22.8
Drank Alcohol in Past 30 Days	1,791	15.8	13.8-18.1
No Alcohol in Past 30 Days	2,155	25.2	22.7-28.0
Binge Drinker	370	18.1	13.6-23.7
Not a Binge Drinker	3,517	21.0	19.1-22.9
Heavy Drinker	*	*	*
Not a Heavy Drinker	3,789	20.8	19.0-22.6
No Health Insurance (18-64)	232	38.6	29.9-48.0
Health Insurance (18-64)	2,396	16.3	14.3-18.5



**Table 34 (continued)**  
**No Clinical Breast Exam in Past 2 Years for Selected Health Behaviors and Conditions,**  
**2006**

<b>Health Behavior or Condition</b>	<b># Respondents</b>	<b>% No Clinical Breast Exam</b>	<b>95% CI</b>
Employer Based Health Insurance Coverage (18-64)	1,661	13.9	11.7-16.5
Private Health Insurance Plan (18-64)	296	18.9	13.1-26.4
Medicare (18-64)	*	*	*
Medicaid or Medical Assistance (18-64)	131	27.8	18.4-39.7
The Military, CHAMPUS, TriCare, or the VA (18-64)	*	*	*
The Indian Health Service (18-64)	149	26.6	18.6-36.5
No Flu Shot (65+)	315	40.1	34.1-46.4
Flu Shot (65+)	921	25.0	21.9-28.5
No Pneumonia Shot (65+)	416	34.5	29.4-40.0
Pneumonia Shot (65+)	799	25.7	22.3-29.4
Haven't Been to the Dentist in the Past Year	1,169	33.0	29.3-36.8
Been to the Dentist in the Past Year	2,773	16.1	14.3-18.2
Not Taking any Precautions Against West Nile Virus	1,463	26.4	23.2-29.8
Taking Precautions Against West Nile Virus	2,419	17.1	15.1-19.3
Sometimes/Seldom/Never Wear Seat Belt	456	29.2	23.7-35.3
Always/Almost Always Wear Seat Belt	3,491	19.5	17.7-21.4
Previously Had a Heart Attack	203	30.1	23.4-37.8
Never Had a Heart Attack	3,735	20.3	18.6-22.2
Have Angina or Coronary Heart Disease	198	26.0	19.5-33.7
Do Not have Angina or Coronary Heart Disease	3,724	20.5	18.8-22.4
Previously Had a Stroke	149	34.0	25.2-44.1
Never Had a Stroke	3,801	20.4	18.6-22.3
Fair or Poor Health Status	601	28.5	24.1-33.3
Excellent, Very Good, or Good Health Status	3,335	19.7	17.8-21.7
Physical Health Not Good for 30 Days of the Past 30	257	25.4	19.7-32.1
Physical Health Not Good for 0-29 Days of the Past 30	3,622	20.4	18.6-22.4
Mental Health Not Good for 20-30 Days of the Past 30	244	25.3	19.5-32.0
Mental Health Not Good for 0-19 Days of the Past 30	3,642	20.4	18.6-22.3
Usual Activities Unattainable for 10-30 Days of the Past 30	285	28.7	22.2-36.3
Usual Activities Unattainable for 0-9 Days of the Past 30	3,630	19.9	18.1-21.7
Dissatisfied / Very Dissatisfied with Life	142	33.8	25.3-43.6
Satisfied / Very Satisfied with Life	3,763	20.2	18.5-22.1
Physical, Mental, or Emotional Disability	927	27.2	23.8-31.0
No Physical, Mental, or Emotional Disability	3,018	19.1	17.2-21.2
Disability with Special Equipment Needed	317	33.3	27.3-39.9
No Disability with Special Equipment Needed	3,633	20.0	18.2-21.9
Injured in a Fall (45+)	158	26.3	19.3-34.7
Not Injured in a Fall (45+)	2,578	21.1	19.4-23.0
Never Been Tested for HIV (18-64)	2,071	19.8	17.3-22.5
Been Tested for HIV (18-64)	546	15.4	12.0-19.6
Military Veteran	*	*	*
Not a Military Veteran	3,867	20.8	19.1-22.7

Note: \*Results based on sample sizes less than 100 have been suppressed.

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2006

## INSUFFICIENT CERVICAL CANCER SCREENING

**Definition:** Women respondents, ages 18 and older, who have not received a Pap test within the past three years.

### Prevalence of Insufficient Cervical Cancer Screening

- South Dakota 14.9%
- Nationwide median 16.0%

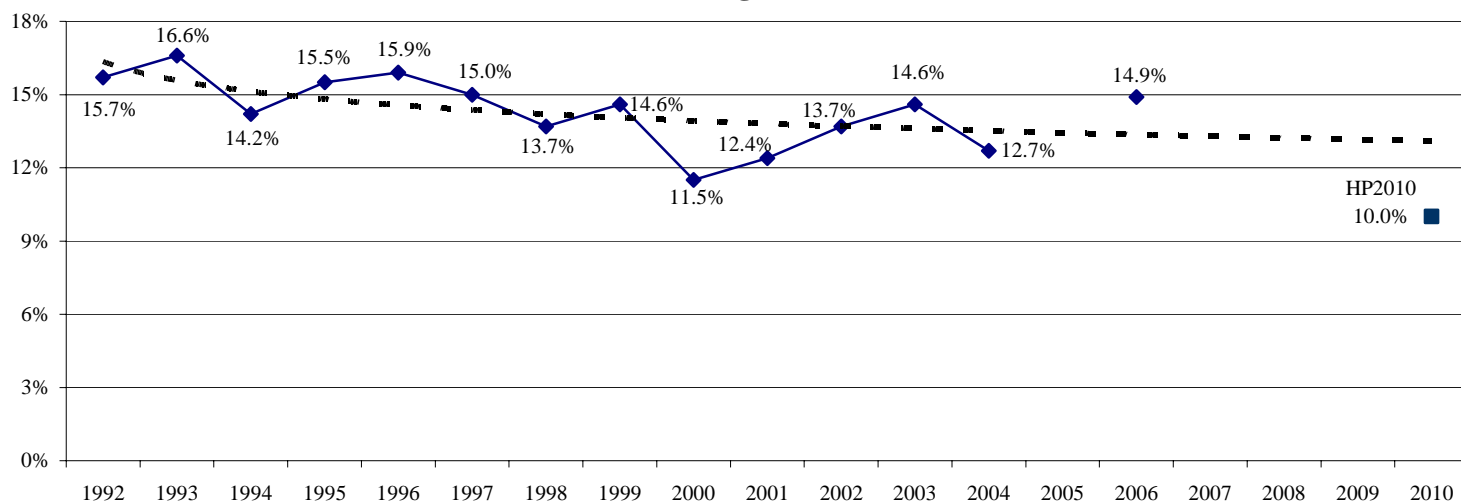
### Healthy People 2010 Objective

*Decrease the proportion of women aged 18 years and older who have not received a Pap test in the preceding 3 years to 10 percent.*

### Trend Analysis

This question was first asked in 1992 and hit its peak in 1993 with 16.6 percent and its low in 2000 with 11.5 percent of women respondents who have had insufficient cervical cancer screening. South Dakota has not met the *Healthy People 2010 Objective* of 10 percent.

**Figure 27**  
**Percent of Women Respondents Who Had Insufficient Cervical Cancer Screening, 1992-2004 and 2006**



Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 1992-2004, and 2006

### Demographics

**Age** The prevalence of those with insufficient cervical cancer screening generally increases as age increases. This includes significant increases as both the 35-44 and 75+ age groups are reached. However, it should be noted that there is a significant decrease from the 18-24 to the 25-34 age group.

**Race** There is no significant racial difference observed from the available data.

**Region** There are no significant regional differences exhibited by the available data.

<b>Household Income</b>	Insufficient cervical cancer is higher for those in the lower income groups.
<b>Education</b>	Insufficient cervical cancer screening generally decreases as education increases. This includes significant decreases as the some post-high school and college graduate education levels are attained.
<b>Employment Status</b>	Those who are retired demonstrate a significantly higher prevalence of insufficient cervical cancer screening than those who are employed for wages, self-employed, or homemakers.
<b>Marital Status</b>	Those who are widowed or never been married exhibit a very high prevalence of insufficient cervical cancer screening, while those who are married show a very low prevalence.

Table 35									
Women Respondents Who Had Insufficient Cervical Cancer Screening, 2006									
	Total			Male			Female		
	# Resp.	%	95% CI	# Resp.	%	95% CI	# Resp.	%	95% CI
Total	2,895	14.9	(13.2-16.9)	-	-	-	2,895	14.9	(13.2-16.9)
Age									
18-24	147	20.4	(13.6-29.4)	-	-	-	147	20.4	(13.6-29.4)
25-34	434	4.3	(2.5-7.2)	-	-	-	434	4.3	(2.5-7.2)
35-44	551	10.0	(7.4-13.4)	-	-	-	551	10.0	(7.4-13.4)
45-54	625	11.2	(8.9-14.0)	-	-	-	625	11.2	(8.9-14.0)
55-64	419	13.1	(9.9-17.2)	-	-	-	419	13.1	(9.9-17.2)
65-74	330	18.8	(14.7-23.7)	-	-	-	330	18.8	(14.7-23.7)
75+	389	45.3	(39.7-51.1)	-	-	-	389	45.3	(39.7-51.1)
Race									
White	2,542	15.0	(13.2-17.1)	-	-	-	2,542	15.0	(13.2-17.1)
American Indian	261	11.5	(7.9-16.5)	-	-	-	261	11.5	(7.9-16.5)
Region									
Southeast	649	12.9	(9.9-16.6)	-	-	-	649	12.9	(9.9-16.6)
Northeast	690	18.3	(14.6-22.7)	-	-	-	690	18.3	(14.6-22.7)
Central	574	16.8	(13.3-20.9)	-	-	-	574	16.8	(13.3-20.9)
West	667	13.7	(10.6-17.6)	-	-	-	667	13.7	(10.6-17.6)
American Indian Counties	315	16.8	(12.5-22.3)	-	-	-	315	16.8	(12.5-22.3)
Household Income									
Less than \$10,000	152	29.3	(18.6-42.9)	-	-	-	152	29.3	(18.6-42.9)
\$10,000-\$14,999	189	24.0	(16.0-34.2)	-	-	-	189	24.0	(16.0-34.2)
\$15,000-\$19,999	228	24.6	(18.0-32.7)	-	-	-	228	24.6	(18.0-32.7)
\$20,000-\$24,999	241	16.3	(11.5-22.5)	-	-	-	241	16.3	(11.5-22.5)
\$25,000-\$34,999	370	16.6	(12.0-22.4)	-	-	-	370	16.6	(12.0-22.4)
\$35,000-\$49,999	484	12.5	(9.2-16.7)	-	-	-	484	12.5	(9.2-16.7)
\$50,000-\$74,999	433	8.5	(4.5-15.3)	-	-	-	433	8.5	(4.5-15.3)
\$75,000+	360	2.5	(1.4-4.5)	-	-	-	360	2.5	(1.4-4.5)
Education									
8th Grade or Less	*	*	*	-	-	-	*	*	*
Some High School	134	35.2	(21.9-51.2)	-	-	-	134	35.2	(21.9-51.2)
High School or G.E.D.	863	21.2	(17.8-25.0)	-	-	-	863	21.2	(17.8-25.0)
Some Post-High School	832	13.8	(10.7-17.5)	-	-	-	832	13.8	(10.7-17.5)
College Graduate	969	6.5	(5.0-8.3)	-	-	-	969	6.5	(5.0-8.3)
Employment Status									
Employed for Wages	1,575	10.5	(8.5-12.8)	-	-	-	1,575	10.5	(8.5-12.8)
Self-employed	232	12.5	(8.5-18.2)	-	-	-	232	12.5	(8.5-18.2)
Unemployed	*	*	*	-	-	-	*	*	*
Homemaker	275	10.5	(7.4-14.6)	-	-	-	275	10.5	(7.4-14.6)
Retired	561	32.4	(28.1-36.9)	-	-	-	561	32.4	(28.1-36.9)
Unable to Work	114	20.0	(12.4-30.7)	-	-	-	114	20.0	(12.4-30.7)

Table 35 (continued)									
Women Respondents Who Had Insufficient Cervical Cancer Screening, 2006									
	Total			Male			Female		
	# Resp.	%	95% CI	# Resp.	%	95% CI	# Resp.	%	95% CI
<b>Marital Status</b>									
Married/Unmarried Couple	1,677	8.8	(7.4-10.4)	-	-	-	1,677	8.8	(7.4-10.4)
Divorced/Separated	386	16.6	(12.5-21.7)	-	-	-	386	16.6	(12.5-21.7)
Widowed	502	37.6	(32.9-42.6)	-	-	-	502	37.6	(32.9-42.6)
Never Married	323	26.9	(19.7-35.6)	-	-	-	323	26.9	(19.7-35.6)

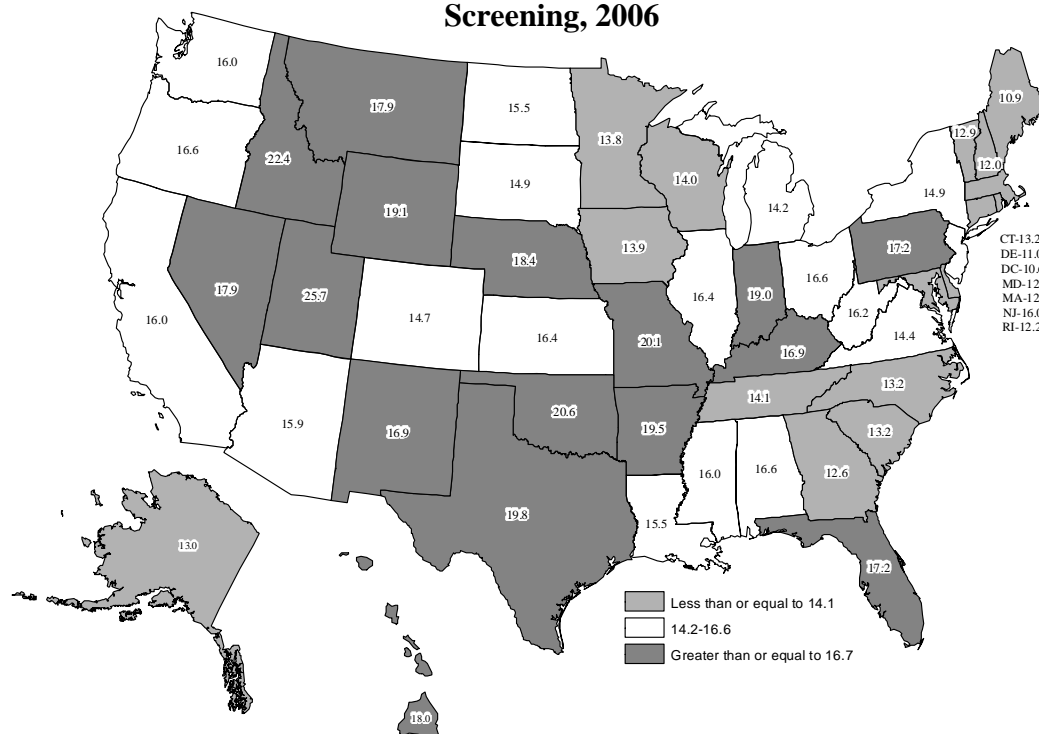
Note: \*Results based on sample sizes less than 100 have been suppressed.

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2006

## National Statistics

The national median for women respondents who had insufficient cervical cancer screening was 16 percent. South Dakota had 14.9 percent of women respondents who had insufficient cervical cancer screening. The District of Columbia had the lowest percent of women respondents who had insufficient cervical cancer screening with 10.6 percent, while Utah had the highest percent of women respondents who had insufficient cervical cancer screening with 25.7 percent.

**Figure 28**  
**Nationally, Women Respondents Who Had Insufficient Cervical Cancer Screening, 2006**



Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2006

## Further Analysis

Following are data illustrating the percent of those women who had insufficient cervical cancer screening for various health behaviors and conditions. For example, 22.3 percent of women respondents who stated they do not have any leisure time physical activity have had insufficient cervical cancer screening, while 13.0 percent of women respondents who have a leisure time physical activity have had insufficient cervical cancer screening.

**Table 36**  
**Insufficient Cervical Cancer Screening for Selected Health Behaviors and Conditions,**  
**2006**

<b>Health Behavior or Condition</b>	<b># Respondents</b>	<b>% Insufficient Cervical Cancer Screening</b>	<b>95% CI</b>
Obese (BMI = 30.0+)	679	15.6	12.2-19.8
Overweight (BMI = 25.0-29.9)	874	16.4	12.9-20.5
Recommended Weight (BMI = 18.5-24.9)	1,076	12.7	10.3-15.5
No Leisure Time Physical Activity	679	22.3	18.6-26.4
Leisure Time Physical Activity	2,213	13.0	11.0-15.2
Not Heard of "Healthy South Dakota" Program	1,669	16.5	14.1-19.3
Heard of "Healthy South Dakota" Program	1,131	11.9	9.6-14.7
Current Smoker	566	16.4	13.0-20.6
Former Smoker	643	10.7	8.4-13.5
Never Smoked	1,682	15.9	13.5-18.8
Smokeless Tobacco Use	*	*	*
No Smokeless Tobacco Use	2,834	14.9	13.2-16.9
Diabetes	231	19.9	14.7-26.4
No Diabetes	2,664	14.6	12.8-16.7
Current Asthma	220	13.1	8.4-19.8
Former Asthma	*	*	*
Never Had Asthma	2,580	14.9	13.1-16.9
No Mammogram within Past Two Years (40+)	591	45.2	40.5-50.0
Mammogram within Past Two Years (40+)	1,445	7.2	5.9-8.8
No Clinical Breast Exam within Past Two Years	618	61.4	55.5-66.9
Clinical Breast Exam within Past Two Years	2,258	2.9	2.3-3.7
No PSA Test within the Past Two Years (40+)	-	-	-
PSA Test within the Past Two Years (40+)	-	-	-
No Digital Rectal Exam within the Past Two Years (40+)	-	-	-
Digital Rectal Exam within the Past Two Years (40+)	-	-	-
Prostate Cancer (40+)	-	-	-
No Prostate Cancer (40+)	-	-	-
No Blood Stool Test within the Past Two Years (50+)	1,097	25.9	23.1-28.8
Blood Stool Test within the Past Two Years (50+)	303	7.1	4.6-10.8
Never Had a Sigmoidoscopy or Colonoscopy (50+)	706	27.4	23.9-31.2
Ever Had a Sigmoidoscopy or Colonoscopy (50+)	715	16.7	13.8-19.9
Diagnosed with Cancer in the Past 12 Months	*	*	*
Not Diagnosed with Cancer in the Past 12 Months	2,786	15.0	13.2-16.9
Drank Alcohol in Past 30 Days	1,379	9.1	7.4-11.1
No Alcohol in Past 30 Days	1,512	20.8	17.9-24.0
Binge Drinker	321	11.7	8.0-16.7
Not a Binge Drinker	2,526	15.4	13.5-17.5
Heavy Drinker	*	*	*
Not a Heavy Drinker	2,763	15.0	13.3-17.0
No Health Insurance (18-64)	197	25.6	18.1-35.0
Health Insurance (18-64)	1,940	9.6	7.7-11.8
Employer Based Health Insurance Coverage (18-64)	1,352	9.0	6.9-11.8
Private Health Insurance Plan (18-64)	228	13.9	8.1-22.8
Medicare (18-64)	*	*	*
Medicaid or Medical Assistance (18-64)	118	6.7	3.2-13.5
The Military, CHAMPUS, TriCare, or the VA (18-64)	*	*	*
The Indian Health Service (18-64)	125	9.2	5.1-15.9

**Table 36 (continued)**  
**Insufficient Cervical Cancer Screening for Selected Health Behaviors and Conditions,**  
**2006**

<b>Health Behavior or Condition</b>	<b># Respondents</b>	<b>% Insufficient Cervical Cancer Screening</b>	<b>95% CI</b>
No Flu Shot (65+)	187	48.0	39.8-56.3
Flu Shot (65+)	530	28.5	24.4-33.1
No Pneumonia Shot (65+)	248	39.8	32.9-47.0
Pneumonia Shot (65+)	457	30.4	25.9-35.4
Haven't Been to the Dentist in the Past Year	827	23.5	20.0-27.5
Been to the Dentist in the Past Year	2,060	11.8	9.8-14.1
Not Taking any Precautions Against West Nile Virus	1,054	22.0	18.4-26.1
Taking Precautions Against West Nile Virus	1,790	10.6	8.9-12.5
Sometimes/Seldom/Never Wear Seat Belt	353	21.7	16.4-28.1
Always/Almost Always Wear Seat Belt	2,537	13.9	12.1-16.0
Previously Had a Heart Attack	106	38.1	27.6-49.9
Never Had a Heart Attack	2,781	14.4	12.6-16.4
Have Angina or Coronary Heart Disease	*	*	*
Do Not have Angina or Coronary Heart Disease	2,779	14.7	12.9-16.7
Previously Had a Stroke	*	*	*
Never Had a Stroke	2,808	14.7	13.0-16.7
Fair or Poor Health Status	388	26.3	21.2-32.2
Excellent, Very Good, or Good Health Status	2,493	13.5	11.7-15.6
Physical Health Not Good for 30 Days of the Past 30	160	16.7	11.3-24.0
Physical Health Not Good for 0-29 Days of the Past 30	2,680	14.8	13.0-16.8
Mental Health Not Good for 20-30 Days of the Past 30	181	17.3	12.2-24.0
Mental Health Not Good for 0-19 Days of the Past 30	2,665	14.8	13.0-16.9
Usual Activities Unattainable for 10-30 Days of the Past 30	182	22.1	14.7-31.9
Usual Activities Unattainable for 0-9 Days of the Past 30	2,688	14.4	12.6-16.4
Dissatisfied / Very Dissatisfied with Life	*	*	*
Satisfied / Very Satisfied with Life	2,767	14.7	12.9-16.7
Physical, Mental, or Emotional Disability	601	21.9	18.1-26.3
No Physical, Mental, or Emotional Disability	2,288	13.5	11.6-15.7
Disability with Special Equipment Needed	194	28.7	22.1-36.4
No Disability with Special Equipment Needed	2,699	14.3	12.5-16.3
Injured in a Fall (45+)	*	*	*
Not Injured in a Fall (45+)	1,662	19.1	17.1-21.2
Never Been Tested for HIV (18-64)	1,673	13.5	11.2-16.3
Been Tested for HIV (18-64)	460	5.2	3.2-8.1
Military Veteran	*	*	*
Not a Military Veteran	2,830	15.0	13.2-17.0

Note: \*Results based on sample sizes less than 100 have been suppressed.

Source: The Behavioral Risk Factor Surveillance System, South Dakota Department of Health, 2006